QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (230mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	PCC(M10)	Compressive Strength(7days and 28days)	2 sets /6-15 cum	7.38	4	4
9	RCC(M20)	Compressive Strength(7days and 28days)	5 sets /50-100 cum	88.4	10	10

23-08-14

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 06-11-23

Lab ID	:	CP-2024-01-08-07
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification . IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	03-11-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	2.15	–
2	Finess by Air permeablity method (m^2/kg,Min)	282.2	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 01-12-23

Lab ID	:	CP-2024-01-08-07
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5) 1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	03-11-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2024-01-08-07 **Date: 06-11-23**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-11-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-11-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	374	374	2.5	97.5	90-100
3	20 mm	6738	7112	47.4	52.6	30-70
4	10 mm	5274	12386	82.6	17.4	10-35
5	4.75 mm	2081	14467	96.4	3.6	0-5
6	Pan	533	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2024-01-08-07** **Date: 06-11-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.25	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2024-01-08-07 Date: 04-11-23
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-11-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.2	96.8	90-100
3	10 mm	2541	2700	54.0	46.0	25-55
4	4.75 mm	2117	4817	96.3	3.7	0-10
5	Pan	183	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2024-01-08-07 Date: 04-11-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	14.8	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.50	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.28	–
7	Aggregate crushing Value(%)	26.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.3	30% for Aggregates to be used in concrete for wearing Surface. 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Date: 04-11-23

Lab ID	:	CP-2024-01-08-07
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	02-11-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	35	35	3.5	96.5	90-100	90-100	90-100	95-100
3	2.36 mm	172	207	20.7	79.3	60-95	75-100	85-100	95-100
4	1.18 mm	116	323	32.3	67.7	30-70	55-90	75-100	90-100
5	600 micron	201	524	52.4	47.6	15-34	35-59	60-79	80-100
6	300 micron	217	741	74.1	25.9	5-20	8-30	12-40	15-50
7	150 micron	183	924	92.4	7.6	0-10	0-10	0-10	0-15
8	Pan	76	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2024-01-08-07

Date: 04-11-23

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.94	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	7.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Date: 03-11-23

Lab ID	:	**CP-2024-01-08-07**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	02-11-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Date: 20-11-23

Lab ID	:	CP-2024-01-08-07
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-11-23
Sample Type /Size	:	Precast Cover Slab -100mm thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	16/11/2023
Grade of Slab	:	M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.52	100.48	1.116	4719	80.9	17.1	15.9	19.9
2	Cover Slab-2	77.46	100.52	1.122	4712	82.3	17.5	16.2	20.3
3	Cover Slab-3	77.30	100.51	1.118	4692	81.5	17.4	16.2	20.2

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TEST REPORT OF PRECAST COVER SLAB

Date: 28-11-23

Lab ID	:	CP-2024-01-08-07
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-11-23
Sample Type /Size	:	Precast Cover Slab -230mm thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	24/11/2023
Grade of Slab	:	M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.48	230.52	2.826	4714	81.9	17.4	16.2	20.2
2	Cover Slab-2	77.51	230.48	2.856	4718	81.1	17.2	16.0	20.0
3	Cover Slab-3	77.52	230.50	2.822	4719	81.5	17.3	16.1	20.1

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 22/11/2023

Lab ID	:	CP-2024-01-08-07
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-11-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	15/11/2023	22/11/2023	150.52 X 150.93 X 150.33	22718	8.175	321.5	14.2	14.5
2	Drain Bottom Raft Concrete	M20	15/11/2023	22/11/2023	150.42 X 150.63 X 150.31	22658	8.188	327.3	14.4	
3	Drain Bottom Raft Concrete	M20	15/11/2023	22/11/2023	150.12 X 150.26 X 150.28	22557	8.961	333.1	14.8	

* The results obtained are satisfactory as per standard requirements.

Note:

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-01-08-07 Date: 13/12/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).

Agency : M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010

Customer's Reference : BBMP/EE/BTP/WO/161/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-11-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/12/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	15/11/2023	13/12/2023	150.54 X 150.57 X 150.04	22667	8.786	531.1	23.4	23.4
2	Drain Bottom Raft Concrete	M20	15/11/2023	13/12/2023	150.07 X 150.93 X 150.50	22650	8.530	526.4	23.2	
3	Drain Bottom Raft Concrete	M20	15/11/2023	13/12/2023	150.23 X 150.73 X 150.33	22645	8.696	531.5	23.5	

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/11/2023

Lab ID	:	CP-2024-01-08-07
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-11-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	25/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/11/2023	25/11/2023	150.50 X 150.83 X 150.43	22701	8.156	331.0	14.6	14.5
2	Drain Side Wall Concrete	M20	18/11/2023	25/11/2023	150.95 X 150.66 X 150.33	22742	8.244	327.0	14.4	
3	Drain Side Wall Concrete	M20	18/11/2023	25/11/2023	150.96 X 150.12 X 150.18	22662	8.834	332.4	14.7	

* The results obtained are satisfactory as per standard requirements

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2024-01-08-07 Date: 16/12/2023
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-11-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/12/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	18/11/2023	16/12/2023	150.36 X 150.20 X 150.72	22585	8.747	522.8	23.1	23.3
2	Drain Side Wall Concrete	M20	18/11/2023	16/12/2023	150.09 X 150.41 X 150.17	22575	8.614	533.0	23.6	
3	Drain Side Wall Concrete	M20	18/11/2023	16/12/2023	150.22 X 150.56 X 150.89	22618	8.348	521.5	23.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/11/2023

Lab ID	:	CP-2024-01-08-07
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-11-23
Customer ID	:	Culvert Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	29/11/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	22/11/2023	29/11/2023	150.30 X 150.12 X 150.90	22563	8.808	334.9	14.8	14.7
2	Culvert Bottom Raft Concrete	M20	22/11/2023	29/11/2023	150.05 X 150.95 X 150.03	22649	8.224	324.8	14.3	
3	Culvert Bottom Raft Concrete	M20	22/11/2023	29/11/2023	150.06 X 150.10 X 150.48	22524	8.707	335.1	14.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-01-08-07 Date: 20/12/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).

Agency : M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010

Customer's Reference : BBMP/EE/BTP/WO/161/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-11-23

Customer ID : Culvert Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/12/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft Concrete	M20	22/11/2023	20/12/2023	150.70 X 150.08 X 150.62	22618	8.345	529.6	23.4	23.5
2	Culvert Bottom Raft Concrete	M20	22/11/2023	20/12/2023	150.06 X 150.36 X 150.60	22564	8.187	523.5	23.2	
3	Culvert Bottom Raft Concrete	M20	22/11/2023	20/12/2023	150.55 X 150.97 X 150.14	22728	8.533	542.0	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/12/2023

Lab ID	:	**CP-2024-01-08-07**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-11-23
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/12/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	25/11/2023	02/12/2023	150.03 X 150.43 X 150.33	22569	8.707	329.8	14.6	14.7
2	Culvert Side Wall Concrete	M20	25/11/2023	02/12/2023	150.38 X 150.54 X 150.45	22639	8.349	336.7	14.9	
3	Culvert Side Wall Concrete	M20	25/11/2023	02/12/2023	150.17 X 150.42 X 150.89	22589	8.428	328.9	14.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2024-01-08-07** **Date: 23/12/2023**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-11-23
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	23/12/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	25/11/2023	23/12/2023	150.28 X 150.42 X 150.96	22604	8.615	537.6	23.8	23.7
2	Culvert Side Wall Concrete	M20	25/11/2023	23/12/2023	150.87 X 150.91 X 150.69	22767	8.278	543.6	23.9	
3	Culvert Side Wall Concrete	M20	25/11/2023	23/12/2023	150.68 X 150.64 X 150.43	22698	8.174	532.0	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/12/2023

Lab ID	:	**CP-2024-01-08-07**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-11-23
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/12/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	25/11/2023	02/12/2023	150.36 X 150.33 X 150.70	22603	8.274	319.5	14.1	14.5
2	Culvert Side Wall Concrete	M20	25/11/2023	02/12/2023	150.22 X 150.72 X 150.23	22641	8.144	334.0	14.8	
3	Culvert Side Wall Concrete	M20	25/11/2023	02/12/2023	150.76 X 150.71 X 150.99	22721	8.444	332.9	14.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2024-01-08-07 Date: 23/12/2023

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).

Agency : M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010

Customer's Reference : BBMP/EE/BTP/WO/161/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 27-11-23

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/12/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	25/11/2023	23/12/2023	150.47 X 150.16 X 150.54	22594	8.129	537.0	23.8	23.6
2	Culvert Side Wall Concrete	M20	25/11/2023	23/12/2023	150.08 X 150.49 X 150.63	22587	8.940	539.6	23.9	
3	Culvert Side Wall Concrete	M20	25/11/2023	23/12/2023	150.70 X 150.16 X 150.59	22629	8.865	525.5	23.2	

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/12/2023

Lab ID	:	**CP-2024-01-08-07**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
Agency	:	M/s S S Enterprises, Prop Sri. Nagaraj M, S/o Muniraju H, No:730, 1st Floor, 62nd Cross, 5th Block, Rajajinagara, Bangalore - 560010
Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-12-23
Customer ID	:	Ramp Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/12/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Ramp Concrete	M10	29/11/2023	06/12/2023	150.76 X 150.08 X 150.90	22626	8.229	177.4	7.8	7.6
2	Ramp Concrete	M10	29/11/2023	06/12/2023	150.53 X 150.02 X 150.04	22583	8.779	162.8	7.2	
3	Ramp Concrete	M10	29/11/2023	06/12/2023	150.82 X 150.88 X 150.87	22756	8.036	177.8	7.8	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/12/2023

Lab ID	:	CP-2024-01-08-07
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Basavasamithi and Surrounding area in Ward No. 14 (Vidyaranyapura).
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Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-12-23
Customer ID	:	Ramp Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/12/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Ramp Concrete	M10	29/11/2023	27/12/2023	150.93 X 150.31 X 150.24	22687	8.147	280.2	12.4	12.0
2	Ramp Concrete	M10	29/11/2023	27/12/2023	150.38 X 150.24 X 150.45	22593	8.546	265.6	11.8	
3	Ramp Concrete	M10	29/11/2023	27/12/2023	150.03 X 150.25 X 150.88	22543	8.262	267.2	11.9	

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Customer's Reference	:	BBMP/EE/BTP/WO/161/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-12-23
Customer ID	:	Ramp Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/12/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Ramp Concrete	M10	29/11/2023	06/12/2023	150.94 X 150.98 X 150.50	22789	8.522	160.9	7.1	7.3
2	Ramp Concrete	M10	29/11/2023	06/12/2023	150.74 X 150.37 X 150.76	22668	8.914	165.4	7.3	
3	Ramp Concrete	M10	29/11/2023	06/12/2023	150.64 X 150.56 X 150.19	22681	8.712	169.6	7.5	

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Sample Condition	:	Satisfactory
Date of Receipt	:	01-12-23
Customer ID	:	Ramp Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M10 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/12/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Ramp Concrete	M10	29/11/2023	27/12/2023	150.38 X 150.04 X 150.22	22562	8.573	273.9	12.1	12.0
2	Ramp Concrete	M10	29/11/2023	27/12/2023	150.12 X 150.33 X 150.63	22567	8.701	279.3	12.4	
3	Ramp Concrete	M10	29/11/2023	27/12/2023	150.08 X 150.50 X 150.34	22586	8.237	259.9	11.5	

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